shown). Example interfaces include, but are not limited to, SCSI, advanced technology attachment (ATA), serial ATA, universal serial bus (USB), IEEE 1394 (FIREWIRE), and any combinations thereof. In one example, storage device **1424** (or one or more components thereof) may be removably interfaced with computer system **1400** (e.g., via an external port connector (not shown)). Particularly, storage device **1424** and an associated machine-readable medium **1428** may provide nonvolatile and/or volatile storage of machine-readable instructions, data structures, program modules, and/or other data for computer system **1400**. In one example, software **1420** may reside, completely or partially, within machine-readable medium **1428**. In another example, software **1420** may reside, completely or partially, within processor **1404**.

Computer system **1400** may also include an input device **1432**. In one example, a user of computer system **1400** may enter commands and/or other information into computer system **1400** via input device **1432**. Examples of an input device **1432** include, but are not limited to, an alpha-numeric input device (e.g., a keyboard), a pointing device, a joystick, a gamepad, an audio input device (e.g., a microphone, a voice response system, etc.), a cursor control device (e.g., a mouse), a touchpad, an optical scanner, a video capture device (e.g., a still camera, a video camera), a touchscreen, and any combinations thereof. Input device **1432** may be interfaced to bus **1412** via any of a variety of interfaces (not shown) including, but not limited to, a serial interface, a parallel interface, a game port, a USB interface, a FIREWIRE interface, a direct interface to bus **1412**, and any combinations thereof. Input device **1432** may include a touch screen interface that may be a part of or separate from display **1436**, discussed further below. Input device **1432** may be utilized as a user selection device for selecting one or more graphical representations in a graphical interface as described above.

A user may also input commands and/or other information to computer system **1400** via storage device **1424** (e.g., a removable disk drive, a flash drive, etc.) and/or network interface device **1440**. A network interface device, such as network interface device **1440**, may be utilized for connecting computer system **1400** to one or more of a variety of networks, such as network **1444**, and one or more remote devices **1448** connected thereto. Examples of a network interface device include, but are not limited to, a network interface card (e.g., a mobile network interface card, a LAN card), a modem, and any combination thereof. Examples of a network include, but are not limited to, a wide area network (e.g., the Internet, an enterprise network), a local area network (e.g., a network associated with an office, a building, a campus or other relatively small geographic space), a telephone network, a data network associated with a telephone/voice provider (e.g., a mobile communications provider data and/or voice network), a direct connection between two computing devices, and any combinations thereof. A network, such as network **1444**, may employ a wired and/or a wireless mode of communication. In general, any network topology may be used. Information (e.g., data, software **1420**, etc.) may be communicated to and/or from computer system **1400** via network interface device **1440**.

Computer system **1400** may further include a video display adapter **1452** for communicating a displayable image to a display device, such as display device **1436**. Examples of a display device include, but are not limited to, a liquid crystal display (LCD), a cathode ray tube (CRT), a plasma display, a light emitting diode (LED) display, and any combinations thereof. Display adapter **1452** and display

device **1436** may be utilized in combination with processor **1404** to provide graphical representations of aspects of the present disclosure. In addition to a display device, computer system **1400** may include one or more other peripheral output devices including, but not limited to, an audio speaker, a printer, and any combinations thereof. Such peripheral output devices may be connected to bus **1412** via a peripheral interface **1456**. Examples of a peripheral interface include, but are not limited to, a serial port, a USB connection, a FIREWIRE connection, a parallel connection, and any combinations thereof.

The foregoing has been a detailed description of illustrative embodiments of the invention. Various modifications and additions can be made without departing from the spirit and scope of this invention. Features of each of the various embodiments described above may be combined with features of other described embodiments as appropriate in order to provide a multiplicity of feature combinations in associated new embodiments. Furthermore, while the foregoing describes a number of separate embodiments, what has been described herein is merely illustrative of the application of the principles of the present invention. Additionally, although particular methods herein may be illustrated and/or described as being performed in a specific order, the ordering is highly variable within ordinary skill to achieve methods and software according to the present disclosure. Accordingly, this description is meant to be taken only by way of example, and not to otherwise limit the scope of this invention.

Exemplary embodiments have been disclosed above and illustrated in the accompanying drawings. It will be understood by those skilled in the art that various changes, omissions and additions may be made to that which is specifically disclosed herein without departing from the spirit and scope of the present invention.

What is claimed is:

1. A method of hallucinating facial features of a first face by prioritizing reconstruction errors, wherein the first face is present in an image in which a first portion of the first face is un-occluded and a second portion of the first face is occluded, the method comprising:

receiving the image of the first face, the first portion containing one or more first facial features;

training a machine-learning algorithm using a set of images each containing a region of a face of an individual corresponding to the first portion of the first face and a region of the face of the individual corresponding to the second portion of the first face so as to produce machine-learning data or receiving machine-learning data corresponding to a previous implementation of such training; and

hallucinating one or more second facial features within the second portion of the first face as a function of the machine-learning data by prioritizing reconstruction errors for hallucinating the one or more second facial features such that reconstruction error for the one or more first facial features is minimized with a higher priority than reconstruction error for hallucinating the one or more second facial features.

2. A method according to claim **1**, wherein the first portion of the first face is a periocular region.

3. A method according to claim **1**, wherein the machine-learning algorithm utilizes a K-SVD algorithm, a convolutional neural network algorithm, an autoencoder algorithm, a sparse filtering algorithm, a method of optimized direc-